

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUN 0 3 7004 E

Ayazi, et al.

Confirmation No.: To be assigned

Group Art Unit: 2811

Serial No.: 10/632,176

Examiner: To be assigned

Filed: 7-31-03

Docket No.: 062020-1440

For: Capacitive Resonators and Methods of Fabrication

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

	This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:								
	under 37 CFR 1.97(b), or (within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)								
		under 37 CFR 1.97(c) together with either a: Statement Under 37 C.F.R. 1.97(e), or a \$180.00 fee under 37 CFR 1.17(p), or (After the CFR 1.97(b) time period, but before the final office action or notice of allowance, whichever occurs first)							
		under 37 CFR 1.97(d) together with a: Statement under 37 CFR 1.97(e), and a \$180.00 petition fee set forth in 37 CFR 1.17(p). (Filed after final office action or notice of allowance, whichever occurs first, but before payment of the issue fee)							
	Enclosed	is a check in the amount of \$							
	Enclosed	d is Credit Card Payment Form (PTO-2038) in the amount of \$.							
		harge \$ to deposit account . At any time during the pendency of this application, please charge any pursuant to 37 CFR 1.25. The Commissioner is hereby requested to credit any ment to Deposit Account No.							
\boxtimes	Applicant(s) submit herewith Form PTO 1449A - Information Disclosure Statement by Applicant together with copies (where required) of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.								
	A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.								

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. Any statements or identifications regarding the relevance of any portion(s) of cited references should not be construed as a representation that the most relevant portion(s) have been identified, and the absence of such statements or identifications should not be construed as representations that there are no relevant portion(s). The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.

By:

Scott A. Hørstemeyer, Reg/No. 34,183

100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339-5948 770-933-9500

CERTIFIED MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as "First Class Mail," in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 1 2004

Signature Wileycan



EXAMINER'S SIGNATURE:

INFORMATION DISCLOSURE CITATION

Attorney Docket No. Serial No.: 10/632,176

Applicant Ayazi, et al.

Filing Date Group 2811

(Use several sheets if necessary)

				7-3	1-03	2811		
			U.S. PA	TENT DOCUMENTS				
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriat	
	Α	3,513,356		Newell			6-27-67	
٠	В	3,634,787	1-11-72	Newell	333	72	1-23-68	
	С	5,162,691	11-10-92	Mariani, et al.	310	321	1-22-91	
	D	5,426,070	6-20-95	Shaw, et al.	437	203	5-26-93	
	E	5,491,604	2-13-96	Nguyen, et al.	361	278	12-11-92	
	F	5,587,620	12-24-96	Ruby, et al.	310	346	12-21-93	
	G	5,589,082	12-31-96	Lin, et al.	216	2	6-7-95	
	Н	5,663,505	9-2-97	Nakamura	73	702	5-8-96	
	I	5,719,073	2-17-98	Shaw, et al.	437	228	9-27-94	
	J	5,846,849	12-8-98	Shaw, et al.	438	52	2-24-97	
	K	5,847,454	12-8-98	Shaw, et al.	257	734	9-22-97	
		OTHER DOCUM	IENTS (Includ	ling Author, Title, Date, I	Pertinent Pages, etc	:.)		
	L			ctor-On-Insulator Microelec No.10/631,948; filed July 3		ators And M	lethods Of	
	M	Ma, et al.; Sacrificial Laye 2003/0006468 A1; filed Ju		Make Gaps in MEMS Appl	ications; US Patent A	application P	ublication No.:	
	N			the Determination of the Tational Frequency Control S				
,		Mihailovich, et al.; Dissipa and Actuators A 50 (1995)		ents of Vacuum-Operated Si	ngle-Crystal Silicon	Microresona	tors, Sensors	
				tic Internal Friction on the 6, Hilton Head, SC 6/4-7/90		Silicon Reso	onators; IEEE	
	Q			ency Nanometer Scale Mech ch.; Received June 21, 1996,		om Bulk Si C	Crystals;	
	R	No, et al.; The HARPSS Proof Nanotechology; October		ation of Nano-Precision Silis 489-494	con Electromechanic	cal Resonator	rs; IEEE Conf.	
	S	Water, et al.; "Physical and Structural Properties of ZnO Sputtered Films"; Dept. of EE, National Cheng Kung University; Received May 7, 2001; Pages 67-72						
EXAMIN	ER: In and not	itial if citation considered, wh considered. Include copy of t	ether or not citation	on is in conformance with MPE tt communication to the applica	EP § 609. Draw line thant.	rough citation	if not in	

DATE CONSIDERED:

Form PTO	-1449		<u> </u>		Attorney Doc	ket No.	Seria	al No.:	
					062020-1440 10/632,176				
IN	NFO.	RMATION DISCLO	OSURE CI	TATION	Applicant Ayazi, et al.				
		(Use several sheets t	if necessary)		Filing Date 7-31-03	-	Grou 2811	Group 2811	
			U.S. PA	ATENT DOCUMEN	TS	-			
Examiner Initials	Item	Document Number	Date	Nai	ne	Class	Subclass	Filing Date If Appropriate	
	T	5,873,153	2-23-99	Ruby, et al.		29	25.35	8-27-96	
	U	5,884,378	3-23-99	Dydyk		29	25.35	7-22-96	
	V	5,894,647	4-20-99	Lakin		29	25.35	6-30-97	
	W	5,914,801	6-22-99	Dhuler, et al.		359	230	9-27-96	
	Х	5,976,994	11-2-99	Nguyen, et al.		438	795	6-13-97	
	Y	5,998,906	12-7-99	Jerman, et al.		310	309	8-17-98	
	Z	6,000,280	12-14-99	Miller, et al.		73	105	3-23-98	
	a	6,051,866	4-18-00	Shaw, et al.		257	417	8-11-98	
	ь	6,060,818	5-9-00	Ruby, et al.		310	363	6-2-98	
	С	6,067,858	5-30-00	Clark, et al.		73	504.16	5-30-97	
	d	6,087,747	7-11-00	Dhuler, et al.		310	90	4-1-99	
		OTHER DOCUM	MENTS (Includ	ding Author, Title, D	ate, Pertinent Pa	ges, etc.)		<u> </u>	
	е	DeVoe; Piezoelectric Thin Fi					8; 2001; pp 26	 53-272	
	f	Bhave, et al.; Poly-Sige: A Hi Microsystems Workshop, Hil	igh-Q Structural	Material for Integrated	RF Mems: Solid-	State Senso			
	g	Hsu, et al.; Q Optimized Late On Solid-State Sensors & Ac	ral Free-Free Be tuators (Transdu	am Micromechanical I acers'01), Munich, Gen	Resonators; Digest many, June 10-14,	of Technic 2001, pp.	al Papers, The	e 11 th Int. Conf.	
	h	Yasumura, et al.; Quality Fac Vol. 9, No. 1, March 2000; p	tors in Micron- a p 117-125	and Submicron – Thick	Cantilevers; Journ	al of Micr	oelectromecha	nical Systems,	
	i	Peterson, et al.; Resonant Bea Sensors and Actuators (Trans	m Pressure Sens duces '91), San	sor Fabricated With Sil Francisco, CA; 1991; _I	icon Fusion Bondi op 664-667	ng; 6th Int.	Conference o	n Solid State	
·	j	Abdelmoneum, et al.; Stemles	ss Wine-Glass N	Mode Disk Micromecha	nical Resonators; I	EEE; 2003	3; pp 698-701		
		Piekarski, et al; Surface Micro				_		1; pp 313-320	
	ı	Lifshitz, et al.; Thermoelastic Damping In Micro- and Nanomechanical Systems; Physical Review B; Vol. 61, No. 8; February 15, 2000; pp 5600-5609							
	m	Srikar, et al.; Thermoelastic Damping In Fine-Grained Polysilicon Flexural Beam Resonators; Journal of Microelectromechanical Systems, Vol. 11, No. 5; October, 2002; pp 499-504							
* EXAMINER onsidered. Inc	R: Initia	al if citation considered, whether opy of this form with next commun	or not citation is in	conformance with MPEP	§ 609. Draw line the	rough citation	on if not in conf	ormance and not	
EXAMINER			то ше ирр		CONSIDERED:				

Initials									
Applicant Ayazi, et al.	l						tet No.	ľ	
Ayazi, et al. Filing Date								10/6.	52,176
Examiner Item	IN	FOR	MATION DISCLO	1					
Examiner Initials	, , , , , , , , , , , , , , , , , , , ,							1 -)
If Appropriate				U.S. PA	TENT DOCUMEN	TS			_
0		Item	1	Date	Nan	ne	Class	Subclass	Filing Date If Appropriate
p 6,215,375 4-10-01 Larson, III, et al. 333 187 3-30-99 q 6,236,281 5-22-01 Nguyen, et al. 331 154 9-21-99 r 6,238,946 5-29-01 Ziegler 438 50 8-17-99 s 6,239,536 5-29-01 Lakin 310 364 9-8-98 t 6,256,134 7-3-01 Dhuler, et al. 359 212 7-28-00 u 6,275,122 8-14-01 Speidell, et al. 333 186 8-17-99 v 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,291,931 9-18-01 Lakin 310 364 11-23-91 x 6,296,779 10-2-01 Clark, et al. 310 364 11-23-91 x 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-State Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE International Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; Single-Crystal Silicon Resonators With Submicron Gap-Spacing; Solid State Sensor: Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 Fravalue Conformance and not considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		n	6,121,552	9-19-00	Brosnihan, et al.		174	253	6-13-97
q 6,236,281 5-22-01 Nguyen, et al. 331 154 9-21-99 r 6,238,946 5-29-01 Ziegler 438 50 8-17-99 s 6,239,536 5-29-01 Lakin 310 364 9-8-98 t 6,239,536 5-29-01 Lakin 310 364 9-8-98 t 6,256,134 7-3-01 Dhuler, et al. 359 212 7-28-00 u 6,275,122 8-14-01 Speidell, et al. 333 186 8-17-99 v 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,291,931 9-18-01 Lakin 310 364 11-23-99 x 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-Stat Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter, MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensor: Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	•	0	6,134,042	10-17-00	Dhuler, et al.		359	224	4-1-99
r 6,238,946 5-29-01 Ziegler 438 50 8-17-99 s 6,239,536 5-29-01 Lakin 310 364 9-8-98 t 6,239,536 5-29-01 Lakin 310 364 9-8-98 t 6,256,134 7-3-01 Dhuler, et al. 359 212 7-28-00 u 6,275,122 8-14-01 Speidell, et al. 333 186 8-17-99 v 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,291,931 9-18-01 Lakin 310 364 11-23-99 x 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-Stat Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE International Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Cupled MEMs Bandpass Filter, MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing, Solid State Sensor: Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		p	6,215,375	4-10-01	Larson, III, et al.		333	187	3-30-99
s 6,239,536 5-29-01 Lakin 310 364 9-8-98 t 6,256,134 7-3-01 Dhuler, et al. 359 212 7-28-00 u 6,275,122 8-14-01 Speidell, et al. 333 186 8-17-99 v 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,291,931 9-18-01 Lakin 310 364 11-23-91 x 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-Stat Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE International Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensor Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		q	6,236,281	5-22-01	Nguyen, et al.		331	154	9-21-99
t 6,256,134 7-3-01 Dhuler, et al. 359 212 7-28-00 u 6,275,122 8-14-01 Speidell, et al. 333 186 8-17-99 v 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,291,931 9-18-01 Lakin 310 364 11-23-99 x 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-Stat Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03, Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensor Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMNER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		r	6,238,946	5-29-01	Ziegler		438	50	8-17-99
u 6,275,122 8-14-01 Speidell, et al. 333 186 8-17-99 v 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,291,931 9-18-01 Lakin 310 364 11-23-99 x 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-State Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensor Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		S	6,239,536	5-29-01	Lakin		310	364	9-8-98
v 6,275,320 8-14-01 Dhuler, et al. 359 237 9-27-99 w 6,291,931 9-18-01 Lakin 310 364 11-23-99 x 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-Stat Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensor Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		t	6,256,134	7-3-01	Dhuler, et al.		359	212	7-28-00
w 6,291,931 9-18-01 Lakin 310 364 11-23-99 X 6,296,779 10-2-01 Clark, et al. 216 66 2-22-99 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-State Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensor Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		u	6,275,122	8-14-01	Speidell, et al.		333	186	8-17-99
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-State Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE International Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensor Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		v	6,275,320	8-14-01	Dhuler, et al.		359	237	9-27-99
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-State Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		w	6,291,931	9-18-01	Lakin	-	310	364	11-23-99
y Lakin; Thin Film Resonators and Filters; IEEE Ultrasonics Symposium; 1999; pp 895-906 z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-State Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		х	6,296,779	10-2-01	Clark, et al.		216	66	2-22-99
z Ruby, et al.; Ultra-Miniature High-Q Filters and Duplexers Using FBAR Technology; IEEE International Solid-State Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			OTHER DOCUM	IENTS (Includ	ling Author, Title, I	Date, Pertinent P	ages, etc	c.)	
Circuits Conference; 2001; pp 120-121 & 438 AA Clark, et al.; High-Q VHF Micromechanical Contour-Mode Disk Resonators; IEEE; 2000; pp 493-496 BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		у	Lakin; Thin Film Resonat	ors and Filters;	IEEE Ultrasonics Syr	nposium; 1999; pp	895-906	5	
BB Wang, et al.; VHF Free-Free Beam High-Q Micromechanical Resonators; Journal of Microelectromechanical System Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		z	1 -	• •	_	ng FBAR Technol	ogy; IEEI	E Internation	al Solid-State
Vol. 9, No. 3; September 2000; pp 347-360 CC Piazza, et al.; Voltage-Tunable Piezoelectrically-Transduced Single-Crystal Silicon Resonators on SOI Substrate; in Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		AA	Clark, et al.; High-Q VHF	Micromechanic	al Contour-Mode Dis	k Resonators; IEE	E; 2000;	pp 493-496	
Proc. IEEE Internatinal Microelectro Mechanical Systems Conference (MEMs '03), Koyoto, Japan, Jan. 2003 DD Pourkamali, et al.; A 600kHz Electrically-Coupled MEMs Bandpass Filter; MEMs '03, pp. 702-705 EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			, ,	_	-	esonators; Journal	of Micro	electromecha	nnical Systems,
EE Pourkamali, et al.; SOI-Based HF and VHF Single-Crystal Silicon Resonators With SUB-100 Nanometer Vertical Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		СС							
Capacitive Gaps; Transducers '03, Boston, MA; June 2003 FF No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		DD	Pourkamali, et al.; A 600kl	Hz Electrically-	Coupled MEMs Band	lpass Filter; MEM	s '03, pp.	702-705	
Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002 * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		EE							er Vertical
conformance and not considered. Include copy of this form with next communication to the applicant.		FF	No, et al.; Single-Crystal Silicon HARPSS Capacitive Resonators With Submicron Gap-Spacing; Solid State Sensors, Actuators and Microsystems Workshop; pp. 281-284, Hilton Head, SC; June 2002						
									

Form PTO-1449					Attorney Docket No. Serial No.: 062020-1440 10/632,176			
IN	FOR	MATION DISCLO	OSURE CI	TATION	Applicant Ayazi, et al.			
		(Use several sheets i		Filing Date 7-31-03		Group 2811		
			U.S. PA	TENT DOCUME	NTS			
Examiner Initials	Item	em Document Date Name Number		Class	Subclass	Filing Date If Appropriate		
·	GG	6,348,846	2-19-02	von Gutfeld, et al.		333	201	10-14-99
•	НН	6,373,682	4-16-02	Goodwin-Johanss	on	361	278	12-15-99
	II	6,377,438	4-23-02	Deane, et al.		361	278	10-23-00
· · · · · · · · · · · · · · · · · · ·	JJ	6,391,674	5-21-02	Ziegler	·	438	52	12-28-00
	KK	6,428,713	8-6-02	Christenson, et al.		216	2	10-1-99
	LL	6,429,755	8-6-02	Speidell, et al.		333	197	1-30-01
	MM	6,433,401	8-13-02	Clark, et al.		257	524	4-5-00
	NN	6,480,645	11-12-02	Peale, et al.		385	18	1-30-01
	00	6,485,273	11-26-02	Goodwin-Johanss	on	417	410.2	9-1-00
	PP	6,495,892	12-17-02	Goodman, et al.	·	257	414	3-26-99
	QQ	6,497,141	12-24-02	Turner, et al.		73	105	6-5-00
		OTHER DOCUM	ENTS (Includ	ing Author, Title,	Date, Pertinent I	Pages, etc	:.)	
	RR Amini, et al.; Capacitive Accelerometer; IEEE International Solid-State Circuits Conference; 2000; pp 1-3							1-3
		Ho, et al.; Through-Suppor Proc. IEEE International M Jan. 2004, pp769-772						
		Pourkamali, et al.; Fully Si IEEE International Micro E 816						
	บับ	Pourkamali, et al.; Electrostatically Coupled Micromechanical Beam Filters; Proc. IEEE International Micro Electro Mechanical Systems Conference (MEMS '04), The Netherlands, Jan. 2004, pp. 584-587						
		Amini, et al.; A High Resolution, Stictionless, CMOS Compatible SOI Accelerometer with a Low Noise, Low Power, 0.25 µm CMOS Interface; IEEE MEMS'04, Jan. 2004, pp. 572-575						, Low Power,
	WW Humad, et al.; High Frequency Micromechanical Piezo-On-Silicon Block Resonators; IEEE; 2003						_	
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.								
EXAMINE	EXAMINER'S SIGNATURE: DATE CONSIDERED:							

, , , ,									Page 5 of 6
Form PTC	Form PTO-1449					Attorney Dock 062020-1440	et No.	■ ■	al No.: 32,176
IN:	INFORMATION DISCLOSURE CITATION					Applicant Ayazi, et al.			
		(Use several sheets i	f necessary)			Filing Date 7-31-03		Grou 2811	•
			U.S. PA	TENT DOCU	JMEN'	TS			
Examiner Initials	Item	Document Number	Date		Nam	ae	Class	Subclass	Filing Date If Appropriate
	XX	6,555,201	4-29-03	Dhuler, et al.			428	137	5-15-00
•	-								
	<u> </u>	OTHER DOCUM	ENTS (Include	ding Author T	Title D	Octo Portinant P	agas ata		<u> </u>
	YY	T	•					<u> </u>	324-327
	ZZ	Abdolvand, et al.; Thermoelastic Damping in Trench-Refilled Polysilicon Resonators; IEEE; 2003; pp 324-327 Sundaresan, et al.; A 7-MHz Process, Temperature and Supply Compensated Clock Oscillator in 0.25µm CMOS; Pr of International Symposium on Circuits and Systems (ISCAS) 2003, vol. 1, pp. 693-696, May 2003							
	aa	No, et al.; Single-Crystal S Actuator and Microsystems	ilicon HARPSS	Capacitive Res	sonator	s With Submicro	ı Gap-Sp	acing; Solid-	
	bb	Balaraman, et al.; Low-Cos	st Low Actuatio	n Voltage Copp	per RF	MEMS Switches;	IEEE; 2	002; pp 1225	-1228
·	СС	Dalmia; Design of Inductor	rs in Organic Su	ubstrates For 1-	3 GHz	Wireless Applica	tions; IE	EE; 2002; pp	1405-1408
		Dalmia, et al.; High-Q RF I Proc. 2002 Symposium on I May 2002, pp. 660-669	_		_		-		· · · · · · · · · · · · · · · · · · ·
		Ayazi, et al.; A High Aspec Hilton Head Island, South (tate Sens	or and Actua	tor Workshop,
		Ayazi, et al.; High Aspect-l IEEE; 2000; pp 304-308	Ratio Dry-Relea	ase Poly-Silicon	MEM	S Technology for	Inertial-	Grade Micro	gyroscopes;
		Ayazi, et al.; Design and Fa	abrication of A	High-Performa	nce Po	lysilicon Vibratin	g Ring G	yroscope; IE	EE; 1998; pp
		Selvakumar, et al.; A High Sensitivity Z-Axis Torsional Silicon Accelerometer; The International Electron Devices Meeting; San Francisco, CA; Dec. 8-11, 1996							
	ii	Hao, et al.; An Analytical Model for Support Loss in Micromachined Beam Resonators With In-Plane Flexural Vibrations, Sensors and Actuators, A 109, 2003; pp 156-164							
conformance	* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.								
EXAMINER'S SIGNATURE: DATE CONSIDERED:									

Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Form PTC	-1449)	Attorney Docket No.	Serial No.:					
IN:	FOR	RMATION DISCLOSURE CITATION	062020-1440 10/632,176 Applicant Ayazi, et al.						
		(Use several sheets if necessary)	Filing Date 7-31-03	Group 2811					
		OTHER DOCUMENTS (Including Author, Title	, Date, Pertinent Pages, etc.)						
•	ij	Pourkamali, et al.; High-Q Single Crystal Silicon HARPSS on Transduction Gaps; Journal of Microelectromechanical S							
•	kk	Ayazi; The HARPSS Process for Fabrication of Precision ME 1199	MS Inertial Sensors; Mechatronic	s 12; 2002; pp 1185-					
	11	Ayazi; A HARPSS Spolysilicon Vibrating Ring Gyroscope; J 2; June 2001; pp 169-179	ournal of Microelectromechanical	Systems; Vol. 10, No.					
,	mm	Ayazi, et al.; High Aspect-Ratio Combined Poly and Single-Omicroelectromechanical Systems; Vol. 9, No. 3; Sept. 2000;		Technology; Journal of					
	nn	Ayazi, et al.; High Aspect-Ratio Polysilicon Micromachining	Technology; Sensors and Actuato	ors; 87; 2002; pp 46-51					
	00	Yazdi, et al.; Micromachined Inertial Sensors; Proceedings o	the IEEE; Vol. 86, No. 8; Augus	t 1998; pp 1640-1659					
			TO PARTY						
* EVALO	ED. I		with MDED 8 (00 December 4)	1					
		itial if citation considered, whether or not citation is in conformance t considered. Include copy of this form with next communication to		n citation if not in					
EXAMINER'S SIGNATURE: DATE CONSIDERED:									

Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE